

LISTING OF CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

15. (Previously Presented) In an automatic meter reading (AMR) system comprising a plurality of utility meter end point modules that generate and transmit utility consumption data, and at least one AMR system receiver configured to receive consumption data transmitted by the end point modules by way of frequency hopping spread spectrum transmission, a method of communicating between a first end point module and the receiver, the method comprising:

maintaining, at the receiver, transmission profile information for the first end point module that represents at least a frequency hopping pattern used by the first end point module;

transmitting, by the first end point module, a first message, wherein the first message includes an identifier of the first end point module;

receiving, by the receiver, the first message;

determining, by the receiver, an identity of the first end point module based on the identifier of the first message to obtain a first determined identity;

determining, by the receiver, frequency hopping information associated with a future second transmission by the first end point module based on the first determined identity of the first end point module to obtain a first set of determined frequency hopping information;

predicting, by the receiver, whether the future second transmission will be unsuccessful based on the first set of determined frequency hopping information; and

responding to a predicted unsuccessful future second transmission by adjusting the communicating between the first end point module and the receiver.

16. (Previously Presented) The method of claim 15, further comprising:

transmitting, by a second end point module, a third message, wherein the third

message includes an identifier of the second end point module;

receiving, by the receiver, the third message;

determining, by the receiver, an identity of the second end point module based on

the identifier of the third message to obtain a second determined identity;

and

determining, by the receiver, frequency hopping information associated with a

future fourth transmission by the second end point module based on the

determined second identity of the second end point module to obtain second set of

determined frequency hopping information;

wherein the step of predicting whether the future second transmission will be

unsuccessful includes predicting whether any transmission collision will

occur between the future second transmission by the first end point module, and

the future fourth transmission by the second end point module.

17. (Previously Presented) In an automatic meter reading (AMR) system comprising a plurality of utility meter end point modules that generate and transmit utility consumption data messages, and at least one AMR system reader configured to receive consumption data messages transmitted by the end point modules, a method of operating a first reader, the method comprising:

determining a message arrival time for a future first message to be transmitted by a specific end point module;

predicting, by the first reader, whether the first message will be successfully communicated; and

adjusting reception activity of the first reader according to a result of the predicting.

18. (Previously Presented) The method of claim 17, wherein the step of determining is based on an end point module message arrival list stored in the reader.

19. Cancelled.

20. (Previously Presented) The method of claim 17, further comprising:

transmitting the first message by a first end point module on a first frequency hopping spread spectrum (FHSS) channel; and

prior to the step of transmitting, determining, by the first reader, that the first message will be arrive on the first FHSS channel.

21. (Previously Presented) The method of claim 17, further comprising:

initializing the first reader, including establishing logic for handling any missed end point module messages.

22. (Previously Presented) An automatic meter reading (AMR) system receiver for receiving radio transmissions from a plurality of utility meter end point modules that generate and transmit utility consumption data by way of frequency hopping spread spectrum transmission, the AMR system receiver comprising:

a radio receiver; and

a controller programmed to:

maintain transmission profile information for ones of the plurality of end point

modules, the transmission profile representing at least a frequency

hopping pattern used by at least a first end point module;

operate the radio receiver to engage in radio communications with the first end

point module, wherein the radio communications include a first message

originated by the first end point module that includes an identifier of the

first end point module;

determine an identity of the first end point module based on the identifier of the

first message to obtain a first determined identity;

determine frequency hopping information associated with a future second

transmission by the first end point module based on the first determined

identity of the first end point module to obtain a first set of determined

frequency hopping information;

predict whether the future second transmission will be unsuccessful based

on the first set of determined frequency hopping information; and

respond to a predicted unsuccessful future second transmission by adjusting the

radio communications with first end point module.

23. (Previously Presented) The AMR system receiver of claim 22, wherein the AMR system receiver is of a type selected from the group consisting of: a repeater, and a base unit.

24. (Previously Presented) An automatic meter reading (AMR) system receiver for receiving radio transmissions from a plurality of utility meter end point modules that generate and transmit utility consumption data by way of frequency hopping spread spectrum transmission, the AMR system receiver comprising:

- a radio receiver; and

- a controller programmed to:

- determine an arrival time for a future first transmission to be transmitted by a specific end point module;

- produce a prediction of whether the first message will be successfully communicated; and

- adjust operation of the receiver according to the prediction.

25. (Previously Presented) The AMR system receiver of claim 24, wherein the AMR system receiver is of a type selected from the group consisting of: a repeater, and a base unit.

26. (Previously Presented) The AMR system receiver of claim 24, wherein the controller maintains an endpoint module transmission arrival list.

27. Cancelled.

28. (Previously Presented) The AMR system receiver of claim 24, wherein the controller is configured with logic for handling any missed end point module transmissions.